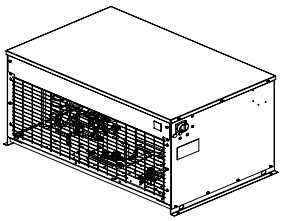
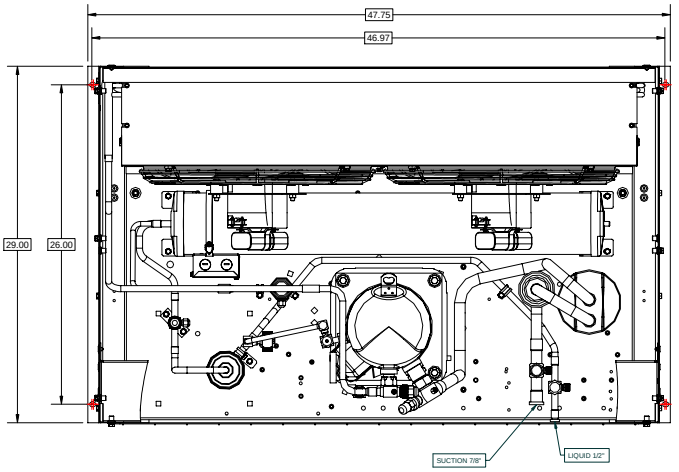
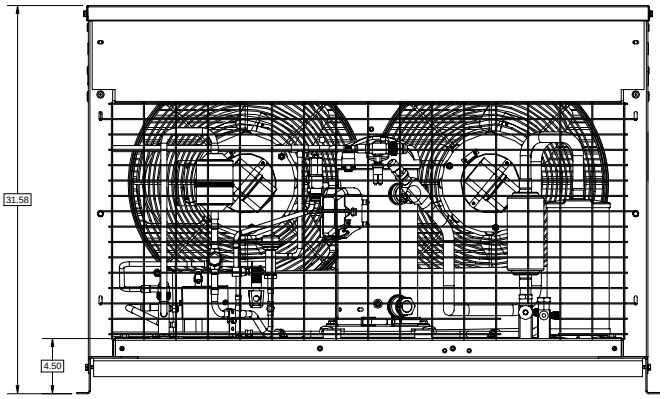
TECUMSEH HERMETIC CONDENSING UNIT

Model	**VSAG513ZXTHM**
BOM	**32L3242-2E**
Air Cooled	**3 ¼ HP**
Application	**Low Temp**
Refrigerant	**R404A**







VSAG513ZXTHM	Dim. Enclosure(inch)*			Line connections		Pumpdown	Air flow	Oil Ch.	Gross weight
	L	W	H	Suction	Liquid	90% @ 90°F	SCFM	Oz.	Lbs.
	29.40	47.75	31.58	7/8 Sweat	1/2 Sweat	33.44	4200	55	550

*) Enclosure Mounting Holes, 26.25 x 58.5

Factory charge 20 psig dry air, **MUST BE EVACUATED**

Evaporator		Ambient Temperatures															
		85°F				95°F				100°F				110°F			
T, °F	PSIG	BTUH	Watts	Head	Cond T	BTUH	Watts	Head	Cond T	BTUH	Watts	Head	Cond T	BTUH	Watts	Head	Cond T
-40	5.5	6200	2850	213	92	5800	3100	235	100	5600	3240	251	104	5000	3560	286	114
-35	8.0	7100	2900	213	92	6700	3150	240	101	6400	3290	256	106	5800	3620	292	115
-30	10.7	8200	2940	213	92	7600	3200	244	102	7300	3340	260	107	6600	3680	298	117
-25	14.0	9300	2980	214	92	8600	3240	248	103	8200	3390	264	108	7500	3740	302	118
-20	17.1	10600	3030	214	92	9700	3290	251	104	9300	3440	268	109	8400	3790	306	119
-15	19.3	11900	3080	215	92	11000	3340	254	105	10500	3490	271	110	9500	3850	310	120
-10	**24.5**	**13400**	**3130**	**217**	**93**	**12300**	**3390**	**258**	**106**	**11700**	**3540**	**275**	**111**	**10600**	**3910**	**314**	**121**
-5	28.8	14900	3200	219	93	13700	3450	261	107	13100	3600	278	112	11800	3970	317	122
0	33.5	16600	3260	222	94	15200	3520	265	108	14500	3660	282	113	13100	4030	321	122
5	36.5	18400	3340	225	95	16800	3580	269	109	16100	3730	286	114	14500	4100	324	123
10	43.7	20300	3420	228	96	18600	3660	274	111	17700	3810	290	115	16000	4180	328	124

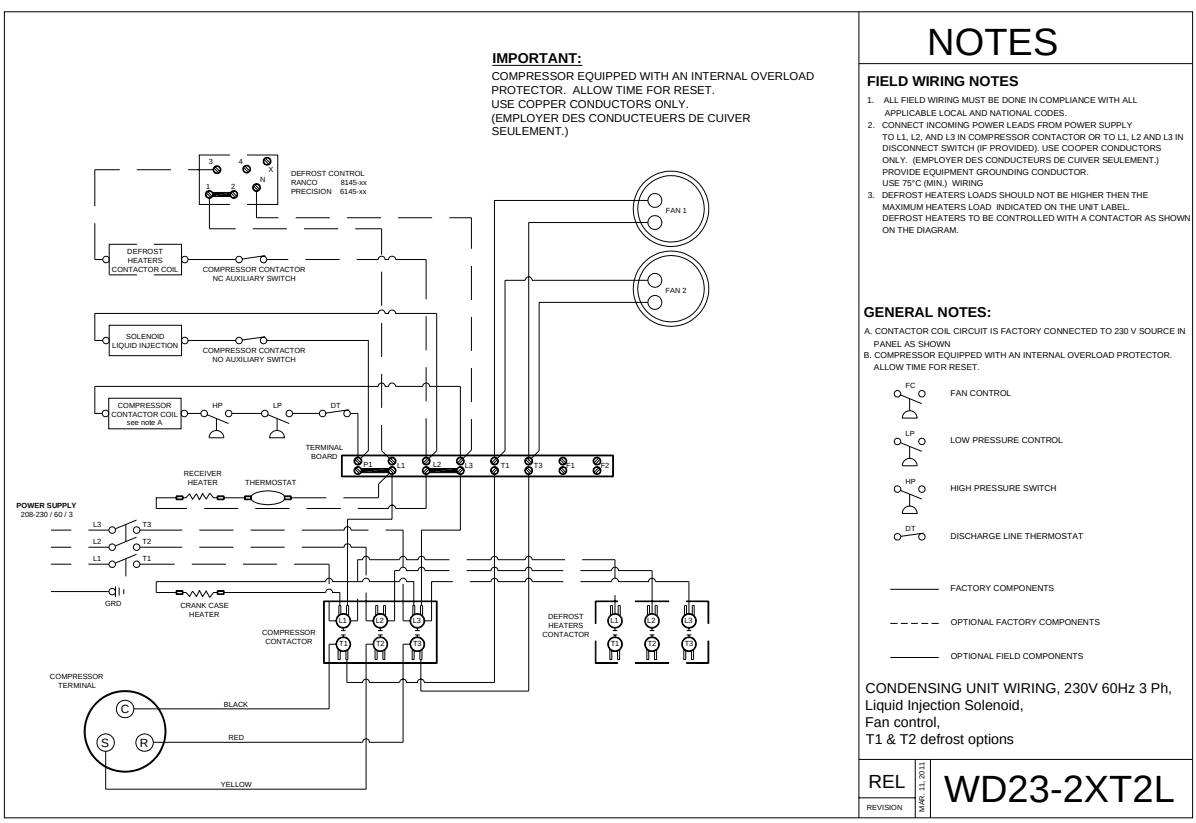
Performance @ 60 Hz, Return gas 40°F, SubCooling 5°F

PRELIMINARY PERFORMANCE DATA

Parts/Specifications

STANDARD

Unit BOM	**32L3242-2E**	Fan Motor	810S186B40	Adjustable Fan Ctrl (A)	LAFC-001
Unit MODEL	**VSAG513ZXTHM**	Fan Motor Qty	2		
		Fan Motor RLA	1.9	Defrost Timer (Tn)	LTCG-T2
Refrigeration RANGE	-40°F to 10°F	Fan Blade	51528-3		
Design Pressure Low	181	Fan Guard	70832		
Design Pressure High	450	Shroud	70611-1	Receiver Heater (R)	LHR-223
Volts - HZ - Ph	200-230V 3~ 60HZ				
Voltage Range	180 - 253	High Pressure switch	84095-2L	Solenoid Valve (S)	KSVC-285
Min. Circuit Ampacity	16.03	Low Pressure Control	84026-2		
Max. Fuse Size	25	Dual Pressure Conrol		Disconnect (D)	KDSG-301
Compressor MODEL	VSAG511ZXT	Condenser	50785-4		
Compressor BOM	VS122RT-008-A4	Head Master Valve	70083		
Compressor LRA	80	Check Valve	56626	**BOM INDEX DESCRIPTION**	
Compressor RLA	9.62	Process Valve			
		Liquid Valve			
OverLoad	INTERNAL	Suction Valve	31529-2	**32xYYYY- 2ERA(F)TnDS**	
Relay				E Enclosure	
Run Capacitor		Receiver	51084	R Receiver Heater	
Run Capacitor Rating		Receiver Qty	1	A Adjustable fan control	
Start Capacitor		Accumulator	TK00042000	F Fixed fan Control	
Start Capacitor Rating		Liquid Filter	52000-164D	T1 Defrost timer option	
Contactor	91014B	Sight Glass	70084-2	T2 Defrost timer & Defrost Heaters Contactor	
		Suction Filter	70822-5S	D Disconnect	
Unit Drawing	DGU1950-L303			S Solenoid liquid Valve (supplied loose)	
Wiring no Fan controls	WD23-2XT2L	CrankCase Heater	14947869		



NOTES

FIELD WIRING NOTES

1. ALL FIELD WIRING MUST BE DONE IN COMPLIANCE WITH ALL APPLICABLE LOCAL AND NATIONAL CODES.
2. CONNECT INCOMING POWER LEADS FROM POWER SUPPLY TO L1, L2, AND L3 IN COMPRESSOR CONTACTOR OR TO L1, L2 AND L3 IN DISCONNECT SWITCH (IF PROVIDED). USE COOPER CONDUCTORS ONLY. (EMPLOYER DES CONDUCTEURS DE CUIVER SEULEMENT.) PROVIDE EQUIPMENT GROUNDING CONDUCTOR. USE 75°C (MIN.) WIRING
3. DEFROST HEATERS LOADS SHOULD NOT BE HIGHER THEN THE MAXIMUM HEATERS LOAD INDICATED ON THE UNIT LABEL. DEFROST HEATERS TO BE CONTROLLED WITH A CONTACTOR AS SHOWN ON THE DIAGRAM.

GENERAL NOTES:

A. CONTACTOR COIL CIRCUIT IS FACTORY CONNECTED TO 230 V SOURCE IN PANEL AS SHOWN
B. COMPRESSOR EQUIPPED WITH AN INTERNAL OVERLOAD PROTECTOR. ALLOW TIME FOR RESET.

FC — FAN CONTROL
LP — LOW PRESSURE CONTROL
HP — HIGH PRESSURE SWITCH
DT — DISCHARGE LINE THERMOSTAT

——— FACTORY COMPONENTS
– – – – – OPTIONAL FACTORY COMPONENTS
——— OPTIONAL FIELD COMPONENTS

CONDENSING UNIT WIRING, 230V 60Hz 3 Ph,
Liquid Injection Solenoid,
Fan control,
T1 & T2 defrost options

REL — REVISION — MAR. 11, 2011

WD23-2XT2L